

GUTENMAKHER, I. I.

Electric modelmaking; electrical integrator
Soiuza SSR, 1943 126 p. (48-13154)

QA35.G8

Moskva, Izd-vo Akademii nauk

QA35.G8

GUTENMACHER, L. 1.

"Artificial many-dimensional models for Approximate Solutions of Integral Equations"

Doklady Akad. Sci. URSS (N.S.) 47, 94-96 (1945)

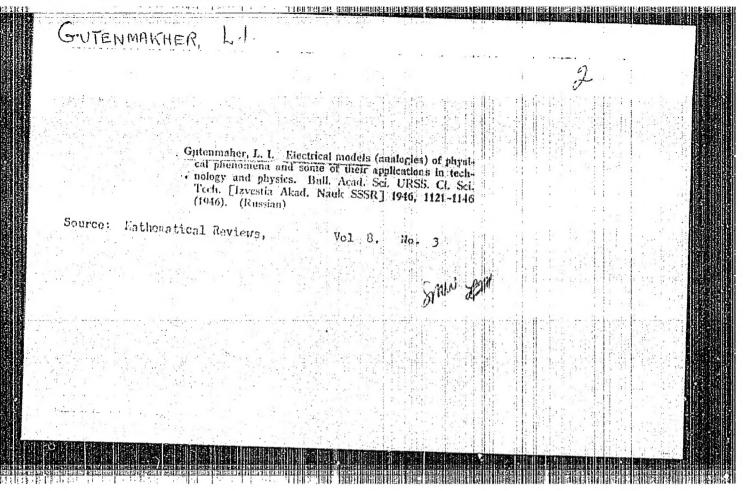
Gutenmacher, L. I.

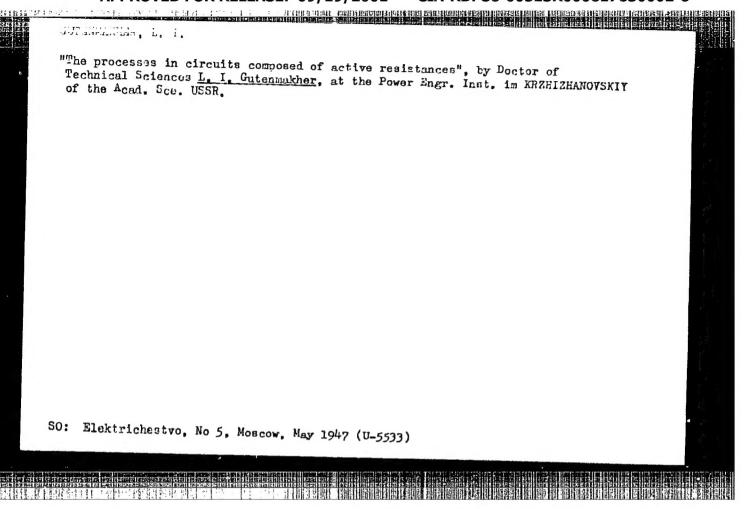
"The Integral Equations of many dimensional electric modes."

Dok AS UR SS (N.S.) 47, pp 169-171, 1945

"Electric circuits for Approximate Solutions of systems of Equations"

Doklady Ak Sci URSS (N.S.) 47, 259-262, 1945.





"A method of electrical modeling (compilation and problems)", by Doctor of Technical Sciences L. I. Gutenmakher, at the Power Sagr. Inst. im KRZHIZHANOVSKIY of the Acad. Sce. USSR.

So: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

GUTENMAKHER, L. I. "Modeling electromagnetic fields in iron, taking into account nonlinearity and hysteresis", by Doctor of Technical Sciences L. I. Gutenmakher, at the Power Engr. Inst. im KRZHIZHANOVSKIY of the Acad. Sce. USSR. SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

> CIA-RDP86-00513R000617630002-6" **APPROVED FOR RELEASE: 09/19/2001**

GUTENMAKIER, L. I. "A model composed of resistances and capacitances", by Doctor of Technical Sciences L. I. Gutenmakher, at the Power Engr. Inst. im KRZHIZHANOVSKIY of the Acad. Sce. USSR. SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

> CIA-RDP86-00513R000617630002-6" **APPROVED FOR RELEASE: 09/19/2001**

GUTANMAKHER, L. I.

"Electromechanical and mechanical models", by Doctor of Technical Sciences
L. I. Gutenmakher, at the Power Engr. Inst. im KRZHIZHANOVSKIY of the
Acad. Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

GU'ANHAKHAR, L. I., KOROL'KOV, N. V.

"The solution of a system of linear algebraic equations on a matrice

"The solution of a system of linear algebraic equations on a matrical scheme with amplifiers", by Doctor of Technical Sciences L. I. Gutenmakher and Engineer N. V. Korol'kov, at the Power Engr. Inst. im KRZHIZHANOVSKIY of the Acad. Sce. USSR.

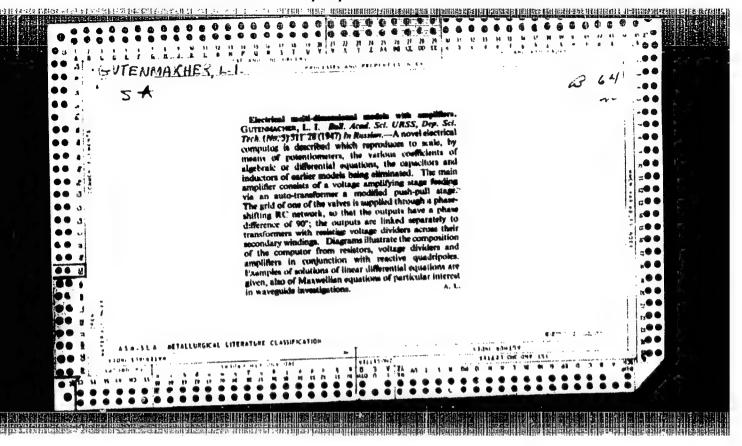
SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

\*\*CUTENNARHER, L. I.

"Models of active resistances", by Doctor of Technical Sciences L. I. Cutenswicher.

at the Power Engr. Inst. in KRZHIZHANOVSKIY of The Acad. Scs. USSR.

So: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)



GUTENMAKHER, L. I.

At the plenary meeting of the conference of the Power Establishments of the Academies of Sciences of the Union Republics and of the Affiliates of the Academy of Science, USSR, the following paper was presented by Doctor of Technical Sciences L. I. Gutenmakher em "Electrical models in the field of power".

SO: Elektrichestvo, No. 9 Moscow, Sept. 1947 (U-5534)

Uses / Slectricity

Ricctrical Analogy

Mechanical Analogy

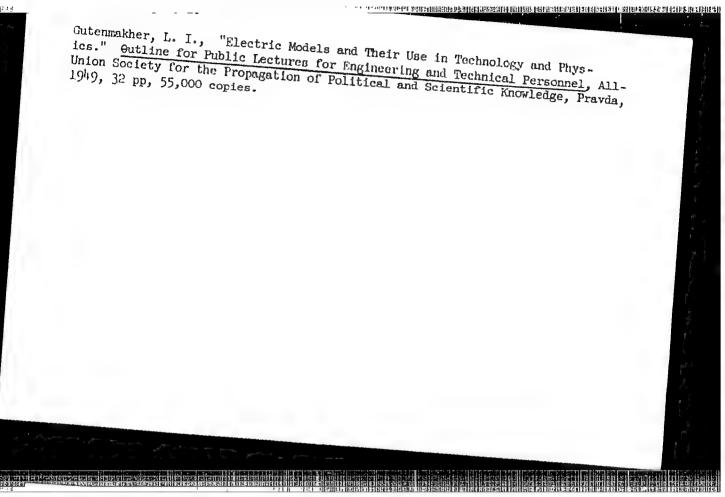
Gatermakher, Dr Tech Sci, Power Eng Inst imeni

Irzhizhanovskiy, Acad Sci USER, 62 pp

"Elektrichestro" No 8

Outlines new branch of electrical technology—electric modeling and machine mathematics. Reviews results of

15/A9740

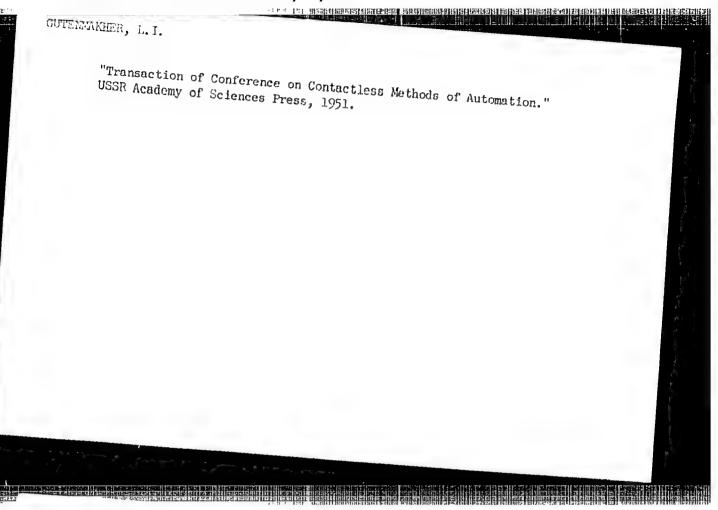


KOROBOCHKIN, I.V., kand. tekhn. nauk; BEL'SKIY, B.R., inah.; MIKHAYLOV, doktor tekhn. nauk, nauchnyy red.; SEVOST'YANOVA, M.V., doktor OSTROVSKAYA, Ye.G., otv. za vypusk

[Catalog-manual of laboratory devices and equipment] Katalog-spravochnik laboratornykh priborov i oborudovaniia. Moskwa, wychislitel'nye pribory i apparaty. 1948. 22 p. No.27. [Microscopes and lences] Mikroskopy i lupy. 1950. 87 p. (MIRA 16:4)

1. Moscow. Vsesoyuznaya vystavka otechestvennogo priborostroyeniya, (Calculating machines—Catalogs)

(Microscopes—Catalogs) (Lenses—Catalogs)



- 1. GUTENMAKHER, L. I.
- 2. USSR (600)
- 4. Classification of Sciences
- 7. Adaption of mechanical techniques to scientific reports. Vest. AN SSSR 22 no. 8, 1952

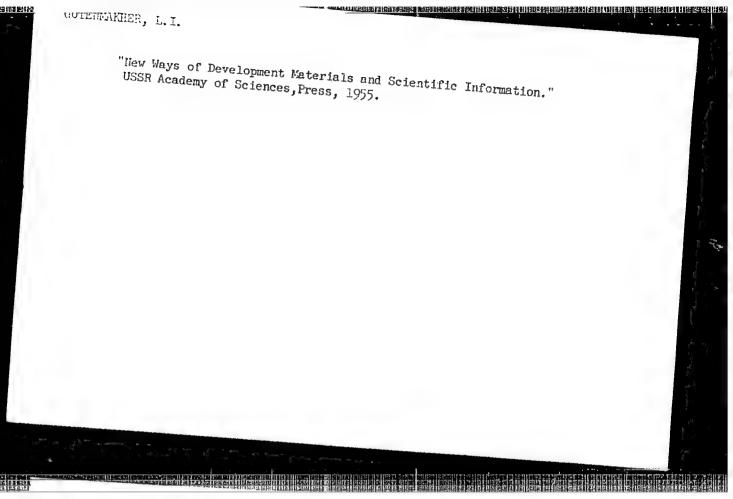
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

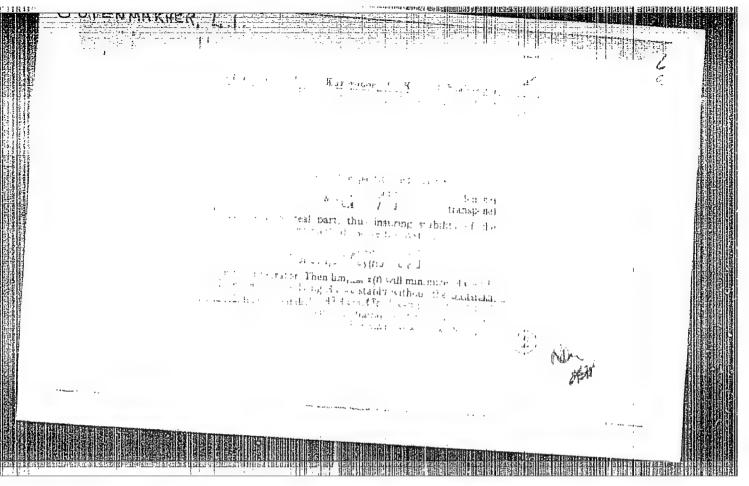
GUTENMAKHER, Lev Izraylevich, laureat Stalinskoy premii, d-r tekhnicheskikh nauk, professor; ROROZ, I.I., redaktor; ISLENT'IEWA,P.G.,

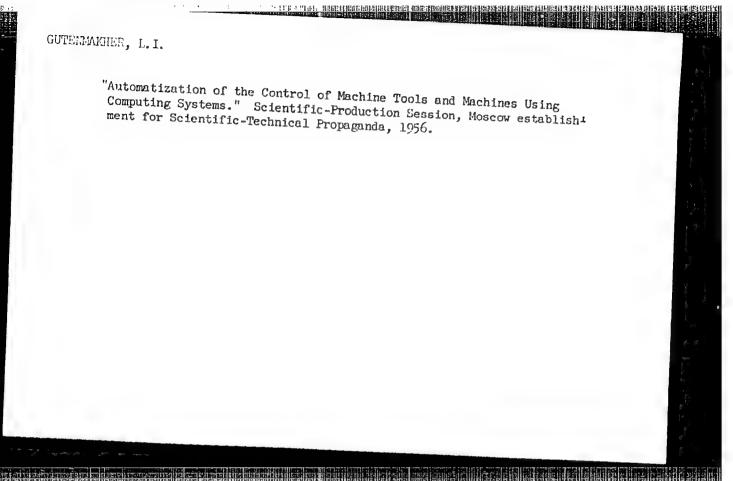
[Slectrical modeling] Elektricheskoe modelirovanie; publichnaia v Rolitekhnicheskom muze v Moskva, Moskva, Izd-vo "Znanie."

1955. 45 p. (Yesesiuznos obshchestvo po rasprostraneniiu politicheskih i nauchnykh znanii. Ser. 4, no.40) (MIRA 9:1)

(Rlectromechanical analogies)







GUTENMAXHER, L.I., doktor tekhnicheskikh nauk.

New type of statistical and informational machines. Vest.
AN SSSR 26 no.10:12-21 0 \*56. (MLRA 9:11)

(Information storage and retrieval systems)

(Electronic calculating machines)

SOV/112-58-3-4535

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 164 (USSR)

AUTHOR: Gutenmakher, L. I.

TITLE: Computers in the Automation of Lathe and Machine Control (Avtomatizatsiya upravleniya stankami i mashinami s primeneniyem schetno-

PERIODICAL: V sb.: Avtomatizatsiya v mashinostr. M., Mashgiz, 1957, pp 7-23

ABSTRACT: Advantages of using the machine mathematics for program lathe control are noted; existing and possible developmental principles of such controls are discussed. Methods are described for reproducing the defined functions by means of binary pulse code, or interpolation formulae, or solution of a set of differential equations. In the latter case, auxiliary tables presented in the article can be used. Mathematical technique of curve presentation will help in automating the work of a designer and will expand the range of his creative efforts. The mathematical machine can also be used for calculating

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SOV/112-58-3-4535

Computers in the Automation of Lathe and Machine Control

certain data of the machining process (i.e., figuring out the tool-motion path); a computer example is cited. The problems of digital-computer structure are considered. Operation of controlling computers is regarded as similar to the operation of a pulsing conveyer. Modern types of computer storing devices and their characteristics are briefly listed. Schemes of digital program lathe control are presented, as well as the schemes of discrete-data conversion into continuous data and vice versa. Methods of preparing data needed for machining on the digital-control lathes are briefly considered; system peculiarities are noted. Advantages of special "step-by-step" electric motors that have recently come into wider use are emphasized. A number of system assemblies and units subject to priority development are listed. Illustrations: 5. Bibliography: 5 items.

L.I.Sh.

Card 2/2

GUTENMAKHER, L.I., doktor tekhnichskikh nauk, professor.

Gybernetics and inventing. Igobr. v SSSR 2 no.1:7-10 Ja '57.

(Information storage and retieval systems)

(Cybernetics)

(Cybernetics)

QUIENFAFEE, L. I. (Dr. Fech. Sci.)

"Review of Possibilities of Application of Contact-less Magnetic and Capacity Blocks and blements in Automatic Systems,"

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Avtomatika i telemekhanika, No. 2, p. 182-192, 1957.

9015229

AUTHOR:

Gutenmakher, L. I., Doctor of Technical

30-10-12/26

Sciences.

TITLE:

Electrical Model Representation of Some Processes of Human Brain Work (Elektricheskoye modelirovaniye

nekotorykh protsessov umstvennogo truda).

PERIODICAL:

Vestnik AN SSSR, 1957, October, Nr 10, pp. 88-96 (USSR)

ABSTRACT:

The laboratory for electrical model representation of AN USSR terminated the preliminary works for the construction of an experimental information machine with a quick-acting "brain(regenerator)" for 2 milliards of double signals.

The input information may be taken from various sources, such as, e.g. from manual key-board, perforated cards, magnetic tapes, and photoelectric instruments. The input information are converted into a double code and subsequently recorded on individual sheets of the long lived capacitive memory-preserver. The separate sheets are compressed to blocks which are electrically connected with the adressing system of the machine, the "memory", and preserved in the "library". The more input (initial?) data are preserved in the machine, the

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more valuable it is.

Electrical Model Representation of Some Processes of Human 30-10-12/26 Brain Work

> Questions put to the machine are supplied in program-like form to the magnetic operative memory-device which is connected with that part of the machine solving, or answering respectively the set problems. The programs according to types are preserved in a separated part of this device for finding the reply. From these two subparts and other special devices the replies are conveyed again over the magnetic operative memory-device to a decoding appliance. Answers of special value which are not yet recorded in the "library", are transmitted to the same for preservation. From the decoding appliance the answer is furnished either in groups of ciphers, or immediately in Russian language. There are 2 figures.

AVAILABLE:

Library of Congress.

Card 2/2

#### APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617630002-6"

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AUTHORS:

Gutenmakher, L.I., Avrukh. M.L., Vissonova, I.A., Mokhel! L.L. and Khol! sheva. A.F.

TITLE:

Magnetic devices free of contacts for control systems

PERIODICAL: Referativnyy zhurnal. Matematika, no.3, 1360, 170,

abstract 3556. (Avtomat. uprayleniye i vychisl. tekhn. M.,

Mashgiz, 1958, 113-145)

The authors describe assemblies and blocks of a number of devices using ferrite and oksifer cores which were designed in the laboratoriya elektromodelirovaniya AN SSSR (laboratory for electrical modeling of the Academy of Sciences USSR) as well as a long-term strange device with condensers. The authors give data on an operating mock-up of a computer with magnetic units and a long-term operative capacity and magnetic storage device with a magnetic control for 1024 numbers and the velocity of recording and reading of 10 microseconds.

[Abstracter's note: Complete translation.]

GUTENMAKHER, LI.

AUTHOR:

Kozlov, G. D.

30-2-43/49

TITLE:

The Use of Magnetic Elements (Ispol'zovaniye magnitnykh elementov)

All-Union Conference (Vsesoyuznoye soveshchaniye)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1958.

Nr 2.

pp 112-113 (USSR)

ABSTRACT:

This conference took place in Moscow from November 25 to 30. It was organized by the Institute for Automatic and Remote Control and the Board for Magnetic Amplifiers and Contactless Magnetic Elements at the Presidential committee of the Akademii Nauk SSSR. Besides the Soviet scientists from various cities of the USSR, officials of scientific research and educational institutions, construction and design organisations of different industrial branches, also representatives of the Academy of Sciences from Bulgaria, China, Poland, and Czechoslovakia attended the conference. The discussions were divided into two groups: magnetic amplifiers and discret magnetic elements.

Furthermore, the author divided the reports into the

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following sections: theory of magnetic amplifiers and discre

The Use of Magnetic Elements. All Union Conference

30-2-45/49

machine elements; their computation and construction; their joint application. The author mentions the following reports: L. I. Gutenmakher reported on the work carried out by the Laboratory for Electrical Modelling

Moreover, reports of foreign scientists were given:

- 1) Yu. Gashkovets reported on stage of the investigations in the field of magnetic amplifiers in Czechoslovakia.
- 2) S. Vendzhin reported on automation in Poland.
- E. S. Dzhakov, Corresponding Member of the Bulgarian Academy of Sciences reported on the development of a contactless magnet relay;
- 4) Professor Min Nay-da, Representative of the Chinese Academy of Sciences reported on the theory of four poles (chetyrekhpolyusnikov).

It was found at this conference that the debelopment and the application of various types of magnetic elements for automation is too slow. The lacking of a centralized production of the types and series of cores, magnetic amplifiers, and other magnetic elements needed most was described as being main reason for this. The domestic

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The Use of Magnetic Elements. All Union Conference

30-2-43/49

production of these products shows considerable short comings. The necessity of an extension of scientific research work in this field at the institutes for automation, remote control, pecision mechanics and computation technique and at the Laboratory for Electrical

THE COLOR WHERE ALTERNATION RESIDENCE ASSESSMENT OF A STREET STREET, AND A STREET STREET, AND A STREET, AND ASSESSMENT OF A STREET, AND A STRE

Modelling was pointed out.

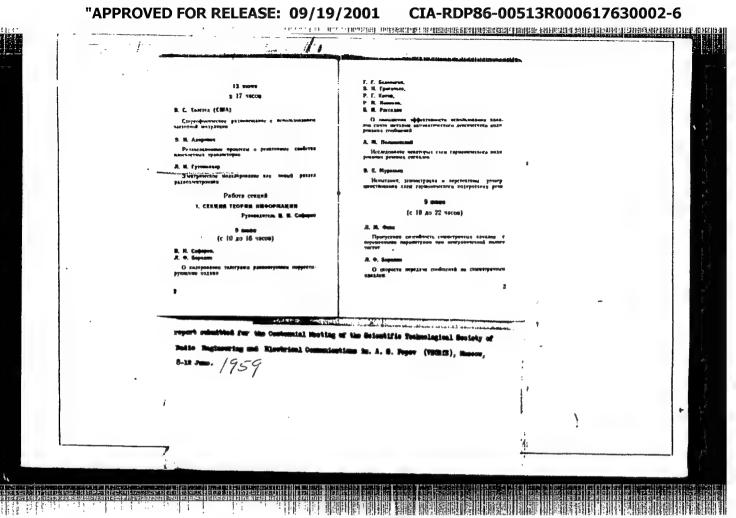
AVAILABLE:

Library of Congress

1. Magnets-Applications 2. Magnetic amplifiers-Theory

Card 3/3

### "APPROVED FOR RELEASE: 09/19/2001



CIA-RDP86-00513R000617630002-6" APPROVED FOR RELEASE: 09/19/2001

GUTENMAKHER, L.I.; MAKHMUDOV, Yu.A.

Experimental digital computer employing LEM-1 ferrite elements.

1zv. AN Azerb. SSR. Ser. fiz. tekh. i khim. nauk no.2:47-60

'59.

(Electronic digital computers)

(Ferrates)

GUTENMAKHER, L.I.; MAKHMUDOV, Yu.A.

Universal LEM-1 numerical calculating machine. Dokl.AN Agerb.
SSR 15 no.3:195-200 '59. (MIRA 12:5)

1. Vychislitel'nyy tsentr AN AzerbSSR. Predstavleno akademikos
AN AzerSSR Z.I.Khalilovym.

(Calculating machines)

PHASE I BOOK EXPLOITATION

SOV/4058

Gutenmakher, Lev Izrailevich

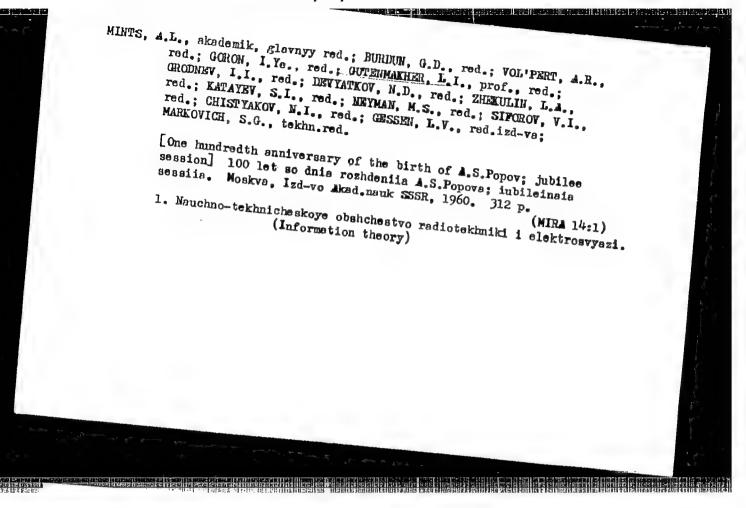
Elektronnyye informatsionno-logicheskiye mashiny Processing and Logic Devices). Moscow, Izd-vo AN SSSR, 1960. 189 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya (Electronic Dataseriya). Errata slip inserted. 20,000 copies printed.

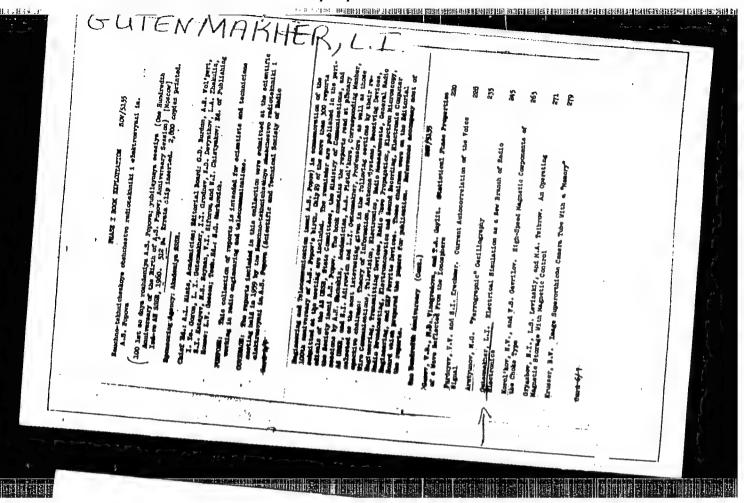
Ed.: A.A. Dorodnitsyn, Academician; Ed. of Publishing House: Ye.I. Levit; Tech. Ed.: I.A. Makogonova. PURPOSE:

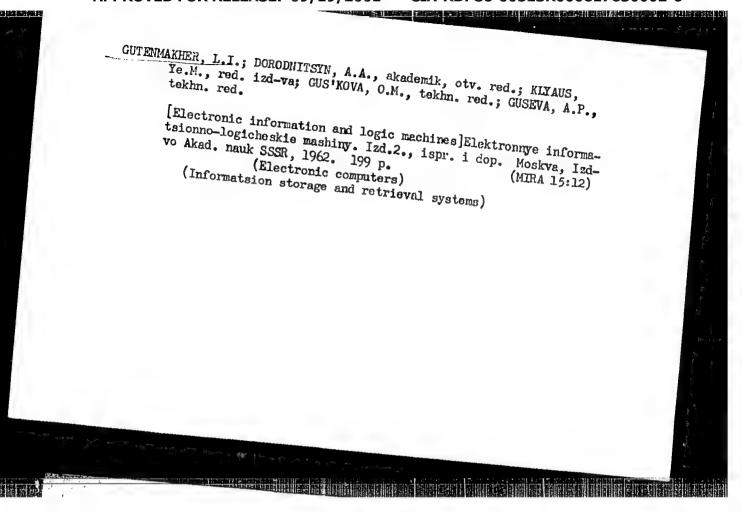
This book is intended for the general reader.

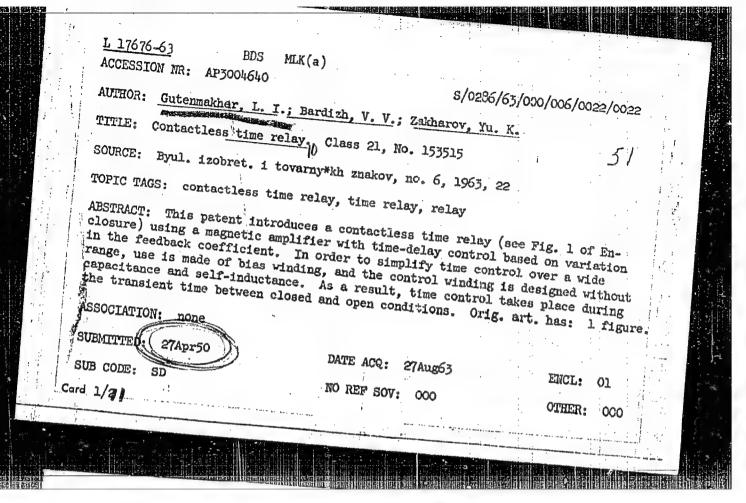
COVERAGE: The author discusses modern computer memory devices, machine language, translating data into machine language, coding of information, and automatic feeding of data into machine storage. The book also covers various kinds of large storage devices and their use in science and technology. No personalities are mentioned. There are 27 references: 18 Soviet and 9 English. TABLE OF CONTENTS:

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L\_38260-65 EWT(d)/EEC(k)-2/EED-2/EWP(1) Po-4/Pg-4/Pg-4/Px-4 LJP(c) BB/GG AUTHOR: Gutenmakher. L. T S/0285/65/000/004/0118/0118

TITLE: Long term capacitive memory device. Class 42, No. 122940

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 118

TOPIC TAGS: computer memory, binary code, information storage, information

ABSTRACT: This Author Certificate describes a long term, capacitive memory device for storing and processing binary coded information. The device is in the form of a unit composed of individual disks upon which are mounted capacitive electrodes. Disk interchange is implemented by constructing the disks with insulator material in the form of flanges. The flange grooves hold flat capacitive electrodes linked with busbars on the disks' surfaces. The linkage contact is broken for the second electrodes, constituting a rigid base of the unit construction and a mount for the disk flanges.

ASSOCIATION: none

1 3825--65

ACCESSION NR: AP5007510

5/0286/65/000/004/0119/0119

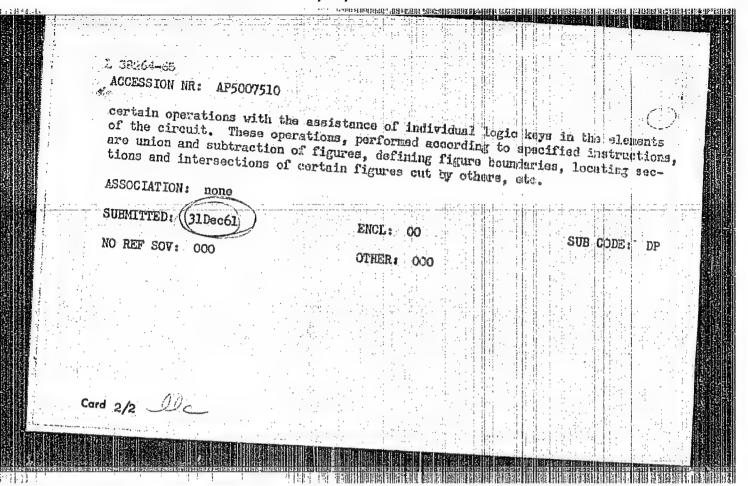
AUTHOR: Gutenmakher L. I.

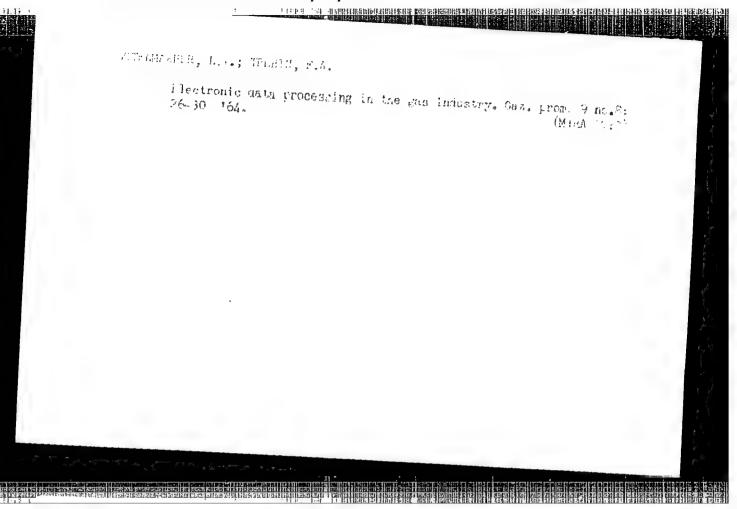
TITLE: A means of executing logical operations with multiple symbol complexes.

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 119

TOPIC TAGS: computer program, computer logic, computer nemery, logic network,

ABSTRACT: This Author Certificate describes a means for executing logical operations with multiple symbol complexes. Logic keys of the types "AND," "OR," "exclusive OR," etc are linked with elements of operating or Long term memory measures in an n-dimensional (or n-coordinate) net of an arbitrarily assigned the command memory section, performs signal transmission from similar storage elements of the memory in accordance with specified addresses. Transmission is designed so that upon filling the unit with information about similarly quanticated n-dimensional domains, the n-dimensional logical decision units perform





"Finding the Extrema of a Function with a Large Number of Variables,"

Vest. Voyenno-inzh. Krasnoznamennoy Akad, im. Kuybyshev, No.79, 1955

ARAMAN OVICH, I.G.; GUTER, R.S.; LYUSTERNIK, L.A.; RAUKHVARGER, I.L.;
SKANAVI, M.T.; YANPOL'SKIY, A.R. Prinicali uchastiye:
TRENOGIN, V.A.; BITYUTSKOY, V.I.; LAPKO, A.F., red.;

KOLESNIKOVA, A.P., tekhn. red.

[Mathematical analysis; differentiation and integration] Matematicheskii analiz; differentsirovanie i integrirovanie. [By]
I.G.Aramanovich i dr. Moskva, Gos. izd-vo fiziko-matem. lit-ry,

(Mathematical analysis)

(Calculus, Differential) (Calculus, Integral)

KACHMAZH, S. [Kaczmarz, Stefan]; SHTKINGAUZ, G.; CUTER, R.S. [translator];
UL'YANOV, P.L. [translator]; VILENKIN, N.Ya., red.

[Theory of orthogonal series] Teorifa ortogonal nykh riadov.
Pod red. i s dop. N.IA.Vilenkins. Moskve, Gos.izd-vo fizikomatem.lit-ry, 1958. 507 p.

(Series, Orthogonal)

(MIRA 12:11)

GAYDAYEV, Petr Alekseyevich; FOMIN, Mikhail Pavlovich; GUTER, R.S.; YERO-FEYEV, I.P., ; MILEVSKIY, Yu.G.; MURALEV, Ya.G; FOMIN, M.P.; SHURYGI-NA, A.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Adjustment of second-order triangulation by approximations] Uravnivanie trianguliatsii 2 klassa priblizheniiami. Moskva, Izd-vo geodez. (MIRA 14:6)

GOL'DFAYN, Iuda Abelevich; GUTER, R.S., red.; UGAROVA, N.A., red.; PLAKSHE, L.Yu., tekhm. red.

[Vector analysis and field theory] Vektornyi analiz i teriia polia. Pod red. R.S.Gutera. Moskva, Gos. izd-ve fiziko-matem.lit-ry, 1962. 132 p. (MIRA 15:3) (Vector analysis)

GUTER, Rafail Samoylovich; YANPOL'SKIY, Avraan Ruvimovich; UGAROVA,
N.A., red.; AKSEL'RÓD, I.Sh., tekhn. red.

[Differential equations]Differentsial'nye uravneniia. Moskva,
Fizmatgiz, 1962. 246 p. (MIRA 15:12)

(Differential equations)

GUTER, Rafail Samoylavich; OVCHINSKIY, Boris Vladimirovich; ARAM. HOVICH,
I.G., red.; M.O.OZOVA, I.Ye., red.; YERMAKOVA, Ye.A., takhn. red.

[Elements of numerical analysis and mathematical processing of experimental results] Elementy chislemongo analiza i matematicheskoi obrabotki rezul'tatov opyta. Moskva, Finnatgiz, 1962. 354 p.

(Mathematical analysis) (Mathematical statistics)

A CONTROL OF THE CONT

MARKOVICH, Emanuil Solomonovich; GUTER, R.S., red.; KISUNKO, V.G., red.; TITOVA, V.A., red.; SHVETSOV, S.V., tekhn. red.

[Course in higher mathematics] Kurs vysshei matematiki. Moskva, Rozvuzizdat, 1963. 407 p. (MIRA 16:12) (Mathematics)

GUTER, R.S., kand.fiz.-matem.nauk

"Method of statistical testing (Monte Carlo) and its implementation by digital computers" by N.P.Buslenko, and IU.A.Shreider. Reviewed by R.S.Guter. Zav.lab. 29 no.7:895 '63. (MIRA 16:8) (Mathematical statistics) (Calculating machines) (Buslenko, N.P.) (Shreider, IU.A.)

GUTER, E.S.; KUDRYAVTSEV, L.D.; LINITAL, B.M.; UL'YANOV, P.L., red.; LYUSTERNIK, L.A., red.; YANFOL'SKIY, A.R., red.; GAFOSHKIN, V.F., red.; KOPYLOVA, A.N., red.; PLAKSHE, L.Yu., tekhn. red.

[Elements of the theory of functions; functions of real variables, approximation of functions; almost periodic functions] Elementy teorii funktsii; funktsii deistvitel—nogo peremennogo, priblizhenie funktsii, pochti-periodicheskie funktsii. Moskva, Fizmatgiz, 1963. 244 p. (MIRA 16:12)

(Functions)

KRONROD, Aleksardr Schenovich; GLTER, .S., red.

[Nodes and weights of quadrature formulas; sixteen-place tables] Uzly i vesa kvadraturnykh formul; shestnadtsatimachnye tablitsy. Moskva, Izd-vo "Nauka," 1964. 143 p.

(MIRA 17:8)

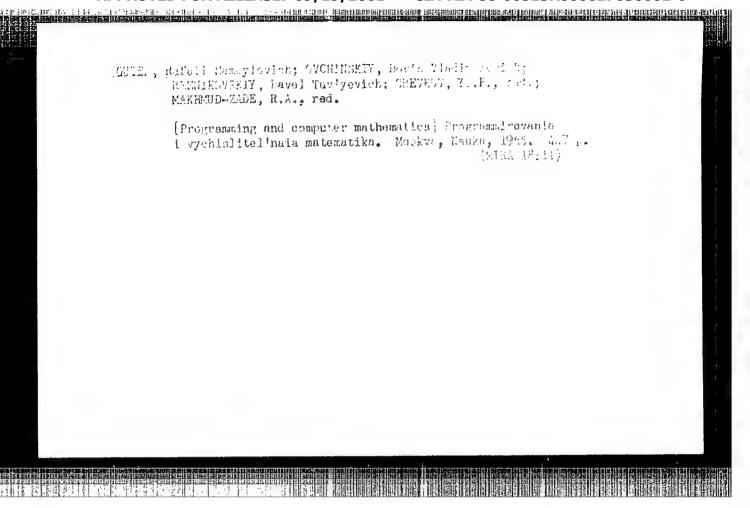
KALININ, Robert Avgustovich; GUTER, R.S., retsenzent; GRUDNIKCV,
V.I., retsenzent; SHIROKOVA, S.A., red.

[Algebra and elementary functions] Algebra i elementarnye
funktsii. Moskya, Nauka, 1964. 477 p. (MIRA 18:4)

GUTER, Rafail Samoylovich; ARLAZAROV, Vladimir L'vovich; USEOV,
Anatoliy Vasil'yevich; HEZHIKOVSKIY, F.F., red.

[Programming practices; a handbook] Praktika programmirovaniia; spravochnik. Moskva, Nauka, 1965. 211 p.

(MIRA 18:4)



KAINI kobert Avgustovich; DONCHENKO, V.V., red. GUTER, k.S., retsenzent; GRUDNIKOV, V.I., retsenzent

[Algebra and elementary functions] Algebra i elementarnye funktsii. Izd.2., ispr. Moskva, Nauka, 1965. 447 p. (MIRA 18:8)

# GUTERCH, Aleksander Dept. of Geophysics, Polish Academy of Sciences (Zaklad Geofizyki PAN) Watsen, Przeglad geologiczny, No 5, May 1966, pages 234-235 "Upper mantle project in Poland."

HER PLANS FROM

#### CZECHOSLOVAKIA

GUTHRIE, R.W.; HENRY, W.A.; IMMER, H.; WONG, C. M.; VALENTA, Z.; WIESNER, K.

Dept. of Chemistry, Univ. of New Brunswick, Fredericton, New Brunswick, Canada (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb 1966, pp 602-621

"The total synthesis of the Garrya veatchii alkaloids."

CHURSTER, N.Ya.: METERT Edda, T.M.

Lue of powder pattern radiography in detraining the nineralogical composition of solid fuel ash. Zav.lab. 31 nc.4:455-456 \*65.

(MRA 18:12)

Mark 18:12

Mark 18:1

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VISHNYAK, M. M., kand. med. nauk; UMBET YAROVA, G. G., mlad. nauchn. sotrud.; RAKHIMOVA, G. K., mlad. nauchn. sotrud.; GUTERMAKHER, TS. M., mlad. nauchn. sotrud.; BASARGIN, P. S., mlad. nauchn. sotrud.; SHEFFER, A. R., mlad. nauchn. sotrud.

Results of bicillin therapy of syphilis in Alma-Ata. Vest. derm. i ven. 36 no.6:57 Je '62. (MIRA 15:6)

1. Iz Kazakhskogo nauchno-issledovatel skogo kozhno-venerologi-cheskogo instituta (dir. - kandidat meditsinskikh nauk M. O.

(BICILLIN) (ALMA-ATA\_SYPHILIS)

GUTERMAN, B.I., khimik

THE PROPERTY OF THE PARTY OF TH

A device for fastening adaptors for obtaining dust samples in the place of work. Gig. i san. 21 no.8:54-55 Ag \*56 (MIRA 9:11)

l. Iz promyshlennogo otdeleniya laboratorii Kolpinskoy rayonnoy sanitarno-epidemiologicheskoy stantsii Leningrada.

(DUST, eterm.

in air of place of work, sampling device) (INDUSTRIAL HYGIENE

determ. of dust in air of work place, sampling service)

Santan Epikemological -teleory to ingred

GUTERMAN, B.L.; LEVIN, A.M.

Technical and economic evaluation of the process of simultaneous production of phosphorus and eluminous cement. [Trudy] NIUIF no.164:103-104 '59. (MIRA 15:5) (Cement industries) (Phosphorus industry)

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AID P - 787

## GUTERMAN, DI

Subject : USSR/Electricity

Card 1/1Pub. 28 - 2/5

Authors Kachan, I. K., Marchenko, D. A., Anisimov, A. P.,

Shishkin, O. P. and Guterman, D. I.

Title Experience in use of a movable electric substation for

electric power supply in oil fields

Periodical : Energ. byul. #2, 9-15, F 1954

Abstract Brief description of electric substations, movable by

railroad or motor transport to a center of oil prospecting.

The substations have lower costs of construction and operation than the stationary units. 4 photographs, 1 table and 2 Russian references in the text (1953).

institution : Inter-Departmental Experimental and Technical Council of

the State Inspection of Electric Power and Power

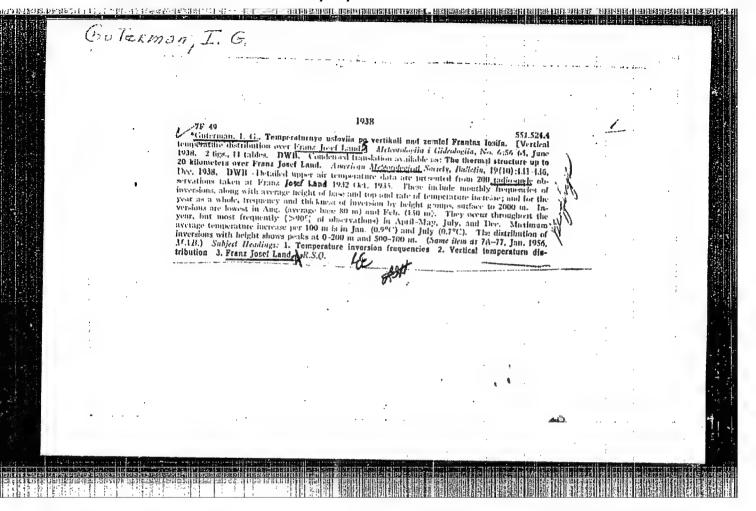
Inspection (MES i EP)

Submitted No date

GUTERMAN, G.M. (Moskers)

Ramose ossification of the lungs, Arkh. pat. no.11:74-76 '64. (MIRA 18:11)

l. Patologoanatomicheskoye otdeleniye (nauchnyy rukovoditel' prof. Ya.L. Rapoport; zav. - R.P. Kogar' I Gorodskoy klini-cheskoy bol'nitsy imeni N.I. Pirogova 'glavnyy vrach L.D. Chernyshev).



- 1. GUTERMAN, I. G.; GOL'DFARB, M. S.
- 2. USSR (600)

Temporary Instructions on <u>Determination of Clouds' Altitude by means of the F1-45-I Ceiling Projector</u>. Hydrometeorological Fress, Moscow-Leningrad, 1943, 19 pages with illustrations.

9. Meteorologiya i Gidrologiya, No. 3, 1949.
Report U-2551. 30 Oct 52.

GUTERMAN, I. G.

"Investigation of the Sonde Meteorograph of Manuylov's Design". Trudy tsentr. aerolog. observ., No 12, pp 27-34, 1953.

The instrument MZM possesses three pressure transmitters, the presence of which permits one to determine the variation in atmospheric pressure with great accuracy. The first of these consists of two membrane aneroidal boxes and ensures ordinary accuracy of instruments required in aerology down to pressures of 250-200 millibars; the second, consisting of three boxes, fixes pressure from 200-250 mb down to the limiting minimum pressure; the third, consisting of 4 boxes, gives a barogram of pressure values of 50 mb down to the minimum. All the pressure receivers possess gas temperature compensation. The main temperature transmitters and supplementary transmitters similar to it consist of C-shaped bimetallic plate 0.35 mm thick. The main transmitter is set in a double shaft with natural ventilation. (RZhGeol, No 8, 1955)

50: Sum No 884, 9 Apr 1956

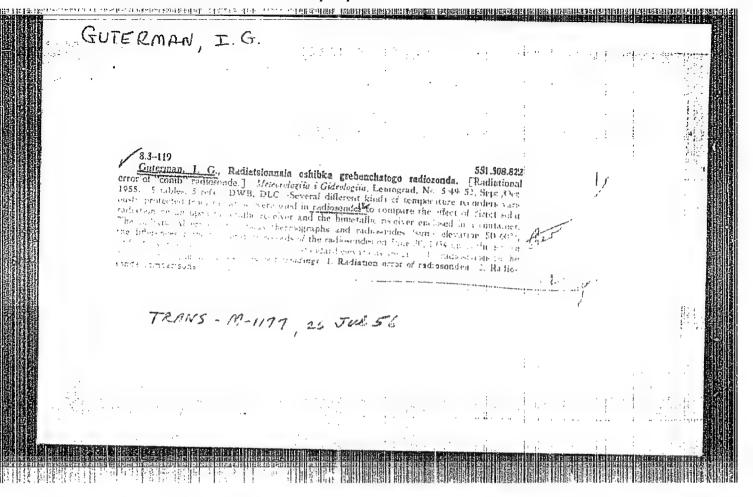
#### GUTERMAN, I. G.,

"Systematic Errors in Temperature Reading of Air by Means of a Radio Probe ", Tr. Tsentr. Aerolog. Observ., No 12, 1953, pp 35-48.

The radiative error in indications of thermoreceivers and meteorographs could be eliminated if the probes could be sent aloftat night. The distorting action of sun rays is analyzed. An improvement of equipment could be achieved by using C. L. Brasefield's method (J. Neteorol, 8, (1948)) of two bimetallic thermoreceivers with different but known, absorption coefficients. (RZhFiz, No 1, 1955) SO: Sum. No. 443, 5 Apr. 55

GUTERMAN, I.G.; DUNAYEVA, S.I.; MAMAYEVA, L.V.

Applicability of the method of differences in aeroclimatological study of the wind. Trudy TSNIGMA no.2:46-69 '55. (NIRA 9:7) (Vinds)



ELTERMAN, I E

USSR/Physics of the Atmosphere - Dynamic Meteorology, M-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36095

Author: Guterman, I. G.

Institution: None

Title: On the Adiabatic Variation of Gas Temperature Inside a Rising

Sphere

Original

Periodical: Meteorol. i gidrologiya, 1956, No 4, 34-35

Abstract: The magnitude of the vertical gradient of temperature inside a

hydrogen-filled rising sphere is calculated. Neglecting the amount of pressure necessary to overcome the elastic forces of the rubber (1-3 mb) it is assumed that the pressure of the hydrogen inside the sphere equals the pressure of the surrounding air. In addition, the temperature inside the sphere is assumed approximately equal to the air temperature. From relationships, describing the adiabatic process, it follows that with the above assumptions the temperature of the rising particle of hydrogen in an air medium

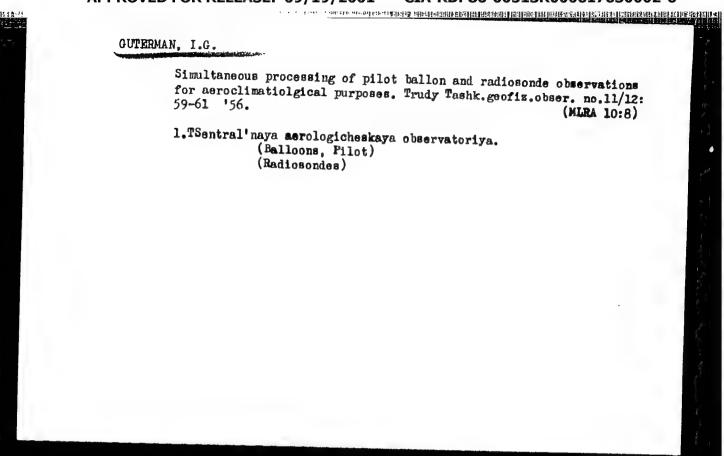
Card 1/2

USSR/Physics of the Atmosphere - Dynamic Meteorology, M-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36095

Abstract: .changes approximately the same as the temperature of a rising particle of unsaturated air. The value of the vertical temperature gradient inside the sphere is obtained to be 0.9885 x 10-40/cm.

Card 2/2



GUTERMAN, I.G.

Daily variations of the air temperature in the free atmosphere according to the data of two series of frequent aerological observations in 1953. Trudy GGO no.65:47-55 \*56. (MIRA 15:6) (Atmospheric temperature)

3(3) \$/050/60/000/02/016/016 AUTHORS: Guterman, I. G., B007/B005 Khanevskaya, I. Second All-Union Conference on Problems of Aeroclimatology TITLE: PERIODICAL: Meteorologiya i gidrologiya, 1960, Nr 2, pp 60-61 (USSR) ABSTRACT: The Second All-Union Conference on Problems of Aeroclimatology was held in Moscow in November 1959. It was attended by 26 scientific research subdepartments of the Gidrometeosluzhba (Hydrometeorological Service) and 29 institutions of various authorities with 223 persons altogether. The Conference was opened by K. T. Logvinov, Deputy Chief of the GUGMS (Main Administration of the Hydrometeorological Service). 27 reports were delivered. P. K. Yevseyev, Director of the NIIAK, gave an account of the work in the field of aeroclimatology in the USSR and described the state of this discipline abroad. I. V. Khanevskaya (NIIAK) characterized the temperature field over the northern hemisphere. V. R. Dubentsov (TsIP (Central Institute of Forecasts)) characterized temperature, geopotential and wind up to the 10-mb level in January 1958 and July 1957. Card 1/4 L. G. Zastavenko (NIIAK) reported on the middle field of the

Second All-Union Conference on Problems of Aeroclimatology

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geopotential. I. G. Pchelko (TsIP) characterized the development of high-altitude anticyclones in summer according to data of the International Geophysical Year. S. I. Dunayeva (NIIAK) described the wind distribution over the northern hemisphere. I. G. Guterman (NIIAK) in his report studied the main characteristics of temperature-, pressure-, and wind distribution over the territory of the USSR. M. V. Zavarina (GGO) reported on the distribution of probable zones of increased turbulence causing the bump of airplanes. N. F. Gel'mgol'ts (Kaz. NIGMI) gave a survey of aeroclimatic characteristics over Kazakhstan. S. N. Ivanova (Sr.-Az. NIGMI (Soviet Central Asia NIGMI)) reported on conditions in the free atmosphere over Soviet Central Asia. L. A. Gavrilova and V. I. Knyazeva, scientific cooperators of the AANII, presented statistical data on the structure of anticyclones and cyclones over the Arctic. M. A. Zolotarev (TsAO (Central Aerological Observatory)) showed by means of vertical sections through the atmosphere that a determination of the tropopause according to conditional criteria is insufficient, and therefore the synoptical conditions have to be considered. I. F. Kvaratskheliya (Tbil.

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Second All-Union Conference on Problems of Aeroclimatology

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NIGMI (Tbilisi NIGMI)) represented the opinion that in a multiple-layer tropopause over the southern USSR the upper tropical tropopause is the essential one whereas the lower layer is to be assigned to the fronts. F. N. Stel'makh (NIIAK) described the characteristics of the interdiurnal altitudeand temperature variability at the lower tropopause boundary over different regions of the USSR. P. A. Vorontsova (GGO) and N. A. Lazareva (GGO) spoke about aeroclimatology in the boundary layer. Both lecturers determine the altitude of the boundary layer starting from the theoretical assumptions by D. L. Laykhtman. I. G. Guterman showed that in the free atmosphere the distribution of the wind velocities obeys the Maxwell distribution law. G. Ya. Narovlyanskiy (VVA im. Mozhayskogo (VVA imeni Mozhayskiy)) and S. V. Solonin (LGMI) described a method of calculating the equivalent wind. I. N. Shpakovskiy (NII GAU) spoke about establishing the minimum times for sounding. L. A. Kazakov (LGMI) mentioned the possibility of calculating a number of additional mean; cheriteristics of atmospheric conditions. R. F. Usmanov (TsIP) explained the advantage of the use of standard altitudes (as

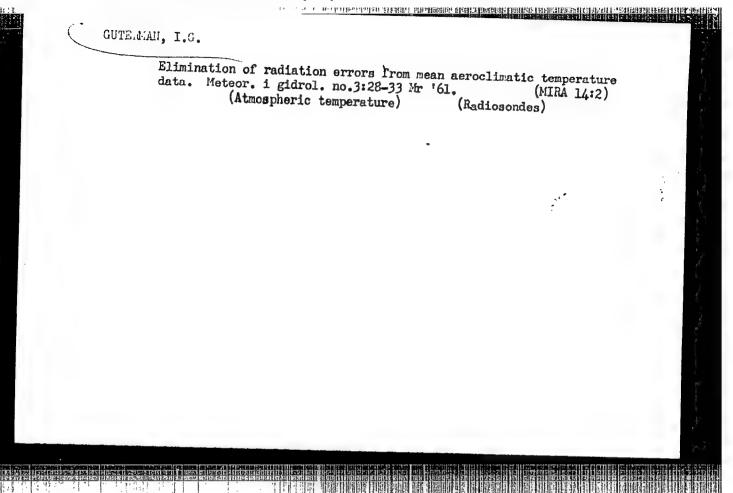
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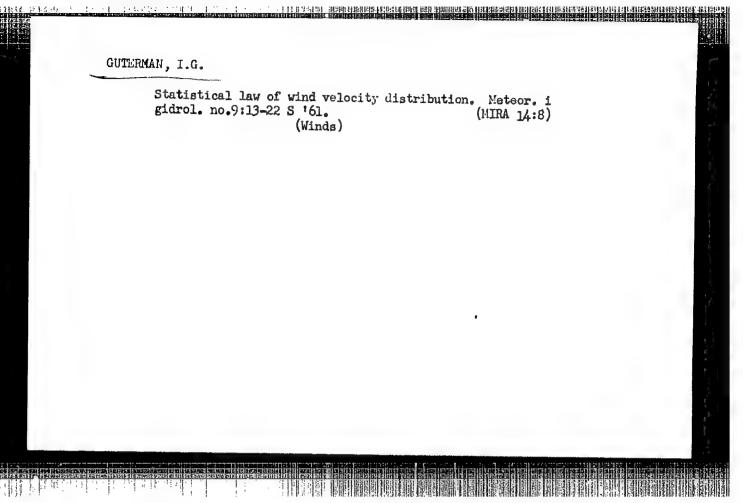
Second All-Union Conference on Problems of Aeroclimatology

S/050/60/000/02/016/016 B007/B005

compared with isobaric surface levels) for investigating atmospheric processes. The Conference recommended to publish the reports and the conference material.

Card 4/4





GUTERMAN, I.G.

Wind statistics. Trudy NIIAK no.14:84-108 °61. (MIRA 15:1)

 Nauchno-issledovatel'skiy institut aeroklimatologii. (Winds)

\$\169\62\000\001\035\082 D228/D302

AUTHOR:

Guterman. I. G.

TITLE:

Eliminating the radiational errors of pectinate radio-sounding apparatus from aeroclimatic temperature

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 1, 1962, 2-3, abstract 1B25 (Tr. N.-i. in-ta aeroklimatol., no. 14,

1961, 109-119)

TEXT: Work on determining the systematic radiational errors of pectinate radio-sounding apparatus was carried out in 1959 at the Nauchno-issledovatel'skiy institut aeroklimatologii (Scientific Research Institute of Aeroclimatology) to make more precise the multi-year data on the air temperature at great heights. From the data of radio-sounding for 1953-1956 at 12 stations, situated at the same latitude (55°N), the magnitude of the radiational errors of radio-sounding apparatus were calculated. and their relation to the heights of the sun and to the altitude above sea-level was Card 1/2

Eliminating the radiational ...

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determined. A special method was developed for rectifying the multi-year climatic temperature data. Radiational corrections for average climatic data on the temperature at the 5, 10, 15, and 20 km levels were calculated from new, more precise data about the radiational errors of pectinate radio-sounding apparatus. Maps of the distribution of these corrections over the USSR's territory were constructed. At heights of about 20 km the radiational correction for the average monthly temperature reaches 4 - 5° in July over the USSR's eastern districts and 2 - 3° above western areas. In January at the same altitude the radiational correction is small and reaches 2.5° only over Kamchatka. To the west and north it abruptly diminishes to zero. Abstractor's note: Complete translation.

Card 2/2

GUTERMAN, I.G.; DUNAYEVA, S.I.

Some remarks on the construction of aeroclimatic wind charts.

Trudy NIIAK no.16:45-49 '62. (MIRA 15:11)

(Winds)

BALAKHONOV, V.P.; BOCHIN, N.A.; GUTERMAN, I.G.; ZAKHAROV, V.N.; ZMIYEV,
A.B.; KARMANOV, V.D.; KEKUKH, A.M.; MARGOLIN, L.N.; TOPAL, I.D.

Brief news. Meteor.i gidrol no.2:61-64 F '63. (MIRA 16:2)

(Meteorology)

ACCESSION NR: AT4028301

\$/2667/63/000/024/0066/0091

AUTHOR: Guterman, I. G.; Dunayeva, S. I.; Zvereva, Ye. P.; Harchenko, A. S.

TITLE: Climatic characteristics of the wind in a model of the standard atmosphere

SOURCE: Moscow. Nauchno-issledovateliskiy institut aeroklimatologii. Trudy\*, no. 24, 1963, 66-91

TOPIC TAGS: standard atmosphere, meteorology, climatology, wind, wind velocity, wind direction, troposphere, stratosphere

ABSTRACT: A method has been developed for processing aerological observations for a 10-year period (1950-1959) to the 30-mb isobaric surface for the determination of wind characteristics, averaged over large regions and the hemisphere. The determined characteristics are recommended as the first variant of a model of a standard atmosphere for the northern hemisphere. Wind parameters were determined for January, for July and for the year to a height of 25 km. The principal parameters used for this model were the mean scalar velocity of the wind for the month and the year and the resultant wind vector (value and direction). Both characteristics were determined using data for 200 stations, a total of 470,000 observations, processed by electronic computer. Principles and methods employed in this study are described fully. The many difficulties in handling this complex problem.

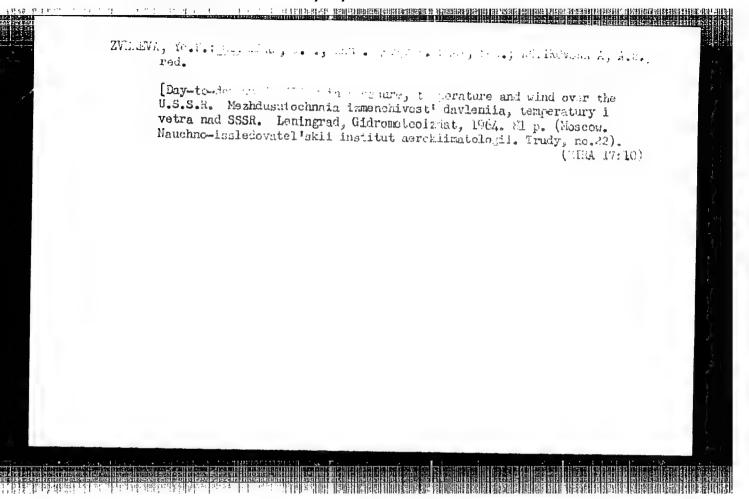
ACCESSION NR: AT4028301

are discussed. Wind parameters are summarized and analyzed for six geographic regions within which the character of wind distribution can be considered homogeneous in the first approximation. Nonuniformity of station distribution and decreasing number of observations at greater heights are taken into account. In this process data were averaged for 206 equal-area squares in the northern hemisphere. The six regions for which data are generalized are: polar regions; Europe and part of Asia; North America and the North Atlantic; North Africa and Central Asia; North Pacific Ocean and the Far East; and the equatorial and tropical regions. The following section headings indicate the nature of the development of the paper: Introduction; characteristics of the data used; principal geographic regions defined for the purpose of description of wind over the northern hemisphere; the wind vector as a random value; determination of the climatic characteristics of the wind; general principles for determining mean parameters for regions and the hemisphere; averaging data for stations; averaging data for regions and the hemisphere; determination of wind characteristics for standard heights; practical computation of derivatives of wind parameters at standard heights. Orig. art. has: 29 formulas, 11 figures and 3 tables.

ASSOCIATION: Nauchno-issledovatel'skly institut aeroklimatologii, Moscow (Scientific Research Institute of Aeroclimatology)

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EVIT(1)/FCC/ 10420~66 AM5025630 BOOK EXPLOITATION UR/ 551.55 Guterman, Isay Grigor vevich Wind distribution over the Northern Hemisphere (Raspredeleniye vetra nad severnym polushariyem), Leningrad, Gidrometeoizdat, 1965. 2 illus., biblio. (At head of title: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR. Nauchnoissledovatel'skiy institut aeroklimatologii). 800 copies printed. TOPIC TAGS: climatology, meteorological observation, wind distribution/Northern Hemisphere, wind circulation model PURPOSE AND COVERAGE: The book gives a general outline of the most complete recent data on wind distribution in the free atmosphere over the Northern Hemisphere. Analysis of Winds by means of charts of constant-pressure surfaces and vertical sections is presented on the basis of aerological observations made at 252 stations in the Northern Hemisphere during the period 1950-1959. New diagrams are plotted for the mean zonal and mean meridional circulation in the Northern Hemisphere. Basic climatic zones of northern jets, their Card 1/3

L 10420-66 AM5025630

propagation area, annual variation, and other characteristics, are described. Methods of analyzing aeroclimatologic wind data using statistical laws of distribution are discussed in detail. Analyzing wind data from various levels is done, taking into consideration practical applications for meeting the needs of various branches of the national economy. The book is intended for a wide range of specialists in meteorology, for physicists and designers, using wind characteristics in their calculations. It may also be used as a textbook by students specializing in general and dynamic meteorology. There are 263 references of which 139 are Soviet.

TABLE OF CONTENTS [abridged]:

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- Methods of analyzing aeroclimatologic observations and characteristics of data used -- 5
- 2. Zonal circulation -- 87

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3. Meridional circu	ulation 167			
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KORCHEMNYY, L.V.; GUTERMAN, I.I., kand. tekhn. nauk, red.; YEGORKINA, L.I., red.izd-va; DEMKINA, N.F., tekhn.red.; MAKAROVA, L.A., tekhn. red.

[Mechanism of the gas distribution in an engine; kinematics, dynamics, strength calculation] Mekhanizm gazoraspredeleniia dvigatelia; kinematika, dinamika, raschet na prochnost'. Moskva, Mashinostroenie, 1964. 209 p. (MIRA 17:3)

"生物",是一个人,我们一个人,我们也是一个人,我们也不是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人 第一章

GUTERMAN, I. I., N. R. EPILING, and M. M. VIKHERT

Bystrokhodnye dizeli. Eop. v kachestve uchebn. posobila dlia vyash. tekhn. uchebn. zavedenii. Moskva, Mashgiz, 1951. 520 p. illus.
Bibliography: p. (516)-517.

High-speed Diesel engines.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GUTERMAN, I.I., kand. tekhn. nauk; FILIMONOV, A.I., kand. tekhn. nauk; SHAANOV, A.I., inzh.

Balancing the D21 two-cylinder diesel engine. Trakt. i sel'khozmash, no.7:8-11 J1 '65. (MIRA 18:7)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel skiy traktornyy institut (for Guterman, Filimonov). 2. Vladimirskiy traktornyy zaved (for Shaanov).